

0003

WATER QUALITY M E M O R A N D U M

Utah Coal Regulatory Program

April 9, 2007

JK

TO: Internal File

THRU: D. Wayne Hedberg, Permit Supervisor *DWH*

FROM: James D. Smith, Environmental Scientist *JS* 04/12/07

RE: 2006 Fourth Quarter Water Monitoring, PacifiCorp, Cottonwood/Wilberg Mine, C/015/0019

The Cottonwood/Wilberg Mine monitoring plan is described in Appendix A of Volume 9 of the MRP.

There are no springs monitored at this site. WCWR1 at the Waste Rock Site is the only well monitored. The mine was sealed May 10, 2001, so in-mine monitoring sites TMA @ 32 and 2nd S XC-11 are no longer accessible. The pond at the Cottonwood Fan Portal was reclaimed in 2002 so UPDES 22896-002 is no longer reported to DOGM or the Division of Water Quality.

1. Were data submitted for all of the MRP required sites?

Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Wells	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
UPDES	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

DMRs were submitted in electronic format (Adobe). DMR data were submitted to the DOGM database as operational parameters, not as DMR parameters.

2. Were all required parameters reported for each site?

Streams YES ☒ NO ☐

Wells YES ☒ NO ☐

UPDES YES ☒ NO ☐

3. Were any irregularities found in the data?

Listed parameters were outside two standard deviations. An asterisk (*) indicates this is not a parameter required by the MRP.

Streams YES ☐ NO ☒

Wells YES ☐ NO ☒

UPDES YES ☒ NO ☐

22896-001 (WMD01) October: bicarbonate as CaCO₃.

22896-001 (WMD01) November: bicarbonate as CaCO₃.

22896-001 (WMD01) December: field pH and bicarbonate as CaCO₃.

4. On what date does the MRP require a five-year resampling of baseline water data.

The next renewal submittal is due 03/06/09 for renewal on 07/06/09. Baseline analyses were performed in 2001 and 2006 and will be repeated every 5 years, i.e., the next baseline analyses will be in 2011. As shown in the following table, the Permittee collected quarterly baseline data at the required sites during 2006.

Fifth-year Baseline Monitoring				
Monitoring Site	1 st Qtr. 2006	2 nd Qtr. 2006	3 rd Qtr. 2006	4th Qtr
WCWR1	Yes	Yes	Yes	Yes
GWR01	No Flow	No Flow	No Flow	No Flow
GWR02	No Flow	Yes	Yes	No Access
GWR03	No Flow	Yes	Yes	No Access
CCC1	Field Parameters Only			
UPDES-001	Not Required	Not Required	Not Required	Not Required
UPDES-003	Not Required	Not Required	Not Required	Not Required
UPDES-004	Not Required	Not Required	Not Required	Not Required
UPDES-005	Not Required	Not Required	Not Required	Not Required

4. Based on your review, what further actions, if any, do you recommend?

At 22896-001 (WMD01) bicarbonate as CaCO₃ was outside two standard deviations from the mean for 7 out of 12 months in 2006, including all 6 months of the 3rd and 4th Quarters.

6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements?

YES ☐ NO ☒

7. Follow-up from last quarter, if necessary.

None.

8. Did the Mine Operator submit all the missing and/or irregular data (datum)?

NA